

Amendments to the Claims

1. (currently amended) A liquid level indicator operable to determine the level of a liquid within a container under ambient conditions using ambient temperature measurements, the indicator comprising:

a plurality of temperature sensors for making said ambient temperature measurements and each providing an output corresponding to the ambient temperature measurement, said sensors being spaced apart from one another;

a processor operable to process the output of at least two of the temperature sensors and provide an output corresponding to the processed output of the temperature sensors corresponding to the ambient temperature measurements; and

an indicator for providing an indication of the liquid level within the container in response to an output of the processor;

wherein the processor is operable to respond to a difference between the outputs of the temperature sensors corresponding to the ambient temperature measurements,

wherein the processor is operable to respond to at least one of the temperature sensors indicating that the ambient temperature is falling with time, and

wherein the processor is operable to compare the difference between the outputs of the temperature sensors corresponding to the ambient temperature measurements against a pre-set temperature condition.

2. (original) A liquid level indicator according to claim 1, wherein there are two temperature sensors spaced one above the other, when the indicator is in use.

3. (original) A liquid level indicator according to claim 1, wherein one or more of the temperature sensors comprises a thermistor.

4. (original) A liquid level indicator according to claim 1, wherein the processor is operable to process the output of the temperature sensors at pre-set time intervals.

5. (cancelled)
6. (original) A liquid level indicator according to claim 1, wherein the processor is operable to respond to the absolute output of at least one of the temperature sensors.
7. (original) A liquid level indicator according to claim 1, wherein the processor includes a memory device for storing at least one output of at least one temperature sensor taken at a previous time interval, for processing with the most-recently obtained output.
8. (previously presented) A liquid level indicator comprising a plurality of temperature sensors spaced apart from one another, a processor operable to process the output of at least two of the temperature sensors, and an indicator for providing an indication of the liquid level in response to an output of the processor; wherein the processor is operable to store at least one difference between outputs of the temperature sensors taken at a previous time interval, for processing with the most-recently obtained difference.
9. (previously presented) A liquid level indicator according to claim 1, wherein the processor is operable to compare a change in the difference between the outputs of the temperature sensors with a quantity that is a function of the drop in temperature detected by at least one of the temperature sensors between a previous detection time and the most recent detection time.
10. (previously presented) A liquid level indicator according to claim 1, wherein the indicator comprises an audible alarm.
11. (original) A liquid level indicator according to claim 10, wherein the audible alarm comprises a piezo-electric sound generator.

12. (original) A liquid level indicator according to claim 1, comprising an operation indicative means for confirming that the liquid level indicator is operational.

13. (original) A liquid level indicator according to claim 12, wherein the operation indicative means comprises one or more light emitting devices.

14. (original) A liquid level indicator according to claim 1, including a housing comprising a main body and a cover attachable to the main body.

15. (original) A liquid level indicator according to claim 14, wherein the housing includes attachment means for attaching the housing to a container whose liquid level is to be detected.

16. (original) A liquid level indicator according to claim 15, wherein the attachment means comprises at least one magnet for attachment to a metallic container.

17. (original) A liquid level indicator according to claim 16, wherein the magnet is a ring magnet arranged coaxially about a respective temperature sensor.

18. (cancelled)

19. (previously presented) A method of indicating a liquid level of a volatile liquid in a pressurized container, the method comprising taking a first measurement indicative of temperature at a first point on the container, taking a second measurement indicative of temperature at a second point on the container, the second point being below the first point, processing the first and second measurements to determine the difference between the two measurements and then comparing the difference against a pre-set condition, sending a signal to an indicator dependent on the result of the comparison step, indicating the liquid level in accordance with the indicator signal, and taking a second set of temperature measurements at the first and second points at a later time, wherein the processing step further comprises comparing the measurement

at the first and/or second point at the later time to the measurement at the same point at the earlier time to determine whether or not the overall temperature of the container is falling.

20. (original) A method according to claim 19, wherein, if the temperature of the container is determined to be falling with time, the processing step may continue, whereas if the temperature is determined not to be falling with time, the method returns to the preceding measuring step.

21. (previously presented) A liquid level indicator according to claim 1, wherein the temperature sensors are attachable to a container whose liquid level is to be detected, such that they are operative to sense ambient temperature of the container at spaced apart locations.